## In the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Claim 1 (currently amended) A plant for producing low-deuterium water from seawater comprising:

- A) a solar still comprising:
  - a black pan for absorbing radiation from the sun and transferring resulting solar heat energy to seawater to evaporate the seawater to produce water vapor,
  - 2) a condensate tank,
  - 3) a porous membrane, defining an upper side and a lower side, and positioned above said black pan for condensing said water vapor into a condensate,
    - a) comprising diffusing pours pores permitting said condensate to diffuse from said lower side to said upper side, and
    - b) being positioned in a slope to permit said compensate on said upper side to drain into said condensate tank, and
- B) a water treatment unit for reducing deuterium concentration in said condensate comprising:
  - 1) a water filter to produce filtered condensate,
  - 2) an electralizer for separating a portion of said filtered condensate into hydrogen and oxygen,
  - 3) a reactor for combining at least a portion of said hydrogen and oxygen to produce heat and water having deuterium concentrations at least 50 percent lower than deuterium concentration in natural seawater, and
  - 4) a heat transfer system to transfer heat energy produced in said reactor to said reactor to provide heat <u>energy</u> to supplement said solar heat <u>energy</u>.

Claim 2 (currently amended) The plant as in Claim claim 1 wherein said black pan is positioned on the sea and said black pan is a porous black pan having pours to permit seawater to diffuse to a top surface of said black pan.

Claim 3 (currently amended) The plant as in Claim claim 2 wherein said black pan is comprised of a polymer micropourous micro-porous hydrophilic material.

Claim 4 (currently amended) The plant as in Claim claim 3 wherein said hydrophilic material has an average pore size in the range of 7 to 150 microns and void volumes of 35 to 50 percent.

Claim 5 (currently amended) The plant as in Claim 1 wherein said reactor is a fuel cell.

Claim 6 (currently amended) The plant as in Claim claim 1 wherein said solar still also comprises a roof comprised of material substantially transparent to solar radiation.

Claim 7 (currently amended) The plant as in Claim claim 1 wherein said solar still is floating on salt water.

Claim 8 (currently amended) The plant as in Claim 1 wherein said solar still is located on land.

Claim 9 (cancelled)

Claim 10 (currently amended) A plant process for producing low deuterium drinking water comprising the steps of:

- A) evaporating salt water in a solar still comprising:
  - 4) 1) a black pan for absorbing radiation from the sun and transferring resulting solar heat energy to seawater to evaporate the seawater to produce water vapor,
  - 5) 2) a condensate tank,
  - 6) 3) a porous membrane, defining an upper side and a lower side, and positioned above said black pan for condensing said water vapor into a condensate,
    - c) <u>a)</u> comprising diffusing <u>pours</u> <u>pores</u> permitting said condensate to diffuse from said lower side to said upper side, and
    - d) b) being positioned in a slope to permit said compensate on said upper side to drain into said condensate tank, and
- B) treating the condensate produced in said solar still a water treatment unit to reduce deuterium concentration in said condensate in a treatment unit comprising the steps of:
  - 5) 1) a filtering water filter to produce filtered condensate,

- 6) 2) an electralizer for separating a portion of said filtered condensate into hydrogen and oxygen using an electralizer,
- 7) 3) a reactor for combining in a reactor at least a portion of said hydrogen and oxygen to produce heat energy and water having deuterium concentrations at least 50 percent lower than deuterium concentration in natural seawater, and
- 8) <u>4) a heat transfer system to transfer transferring with a heat transfer system</u> heat energy produced in said reactor to said reactor to provide heat <u>energy</u> to supplement said solar heat <u>energy</u>.

Claim 11 (currently amended) The process as in Claim claim 10 and further comprising a step of selling said low deuterium water as drinking water.